REMARKS

The drawing figures submitted with the original application filing were replete with inconsistencies vis-à-vis the accompanying Specification. Rather than undertake a piecemeal repair of the original drawings, the Applicant has elected to submit Replacement Drawings, which are fully consistent with the Specification. As denoted hereinabove, the Applicant has undertaken an element-by-element review of each of the three drawing figures and verified that each element, function and interrelationship found in the Replacement Drawings is fully supported by the Application as originally filed.

To facilitate the Examiner's confirmation of Applicant's conclusions, the Applicant has provided an element-by-element listing for each drawing figure, and included cross-listings to comparable elements found in the original drawings as well as the location (by paragraph and line number) of the supporting antecedent basis in the specification.

Accordingly, the Applicant respectfully submits that the Replacement Drawings contain no new subject matter and that their entry into this Application is fully supported and proper.

Claims 1 – 4, 8 – 11, 15 – 18 and 22 – 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Coleman (2001).

Claims 1 – 4, 6, 8 – 11, 13, 15 – 18, 22 – 25 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Ross.

Claims 1 – 5, 7 – 12, 15 – 19, 21 – 26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Coleman (2002).

Claim 14 is rejected under 35 U.S.C.103(a) as being unpatentable over any one of Coleman (2001), Ross and Coleman (2002).

The Applicant points out that he was an acknowledged co-author of both Coleman (2001) and Ross and, in addition, was, in fact, a co-author of many of the presentation slides incorporated into Coleman (2001), and is well aware of the contents thereof.

Each of the four independent claims (1, 9, 15 and 22) has been amended to more clearly distinguish the present invention from the art of record.

Claim 1 has been amended to more particularly point out that the inventive antenna system includes a non-volatile memory which is configured to store data representing at least some of the plurality of antenna systems and a control arrangement which is operatively coupled to the plurality of switching elements and configured to close selected ones of the switching elements as a function of the data stored in the memory.

Finally, the antenna system includes means operative to selectively update the data in the memory as a function of previously selected antenna configurations.

The use of non-volatile memory to store data updates related to previously selected antenna configurations is clearly not disclosed or suggested in any of the art of record.

Claim 9 has been amended to require a processor arrangement operatively coupled to a non-volatile memory to select an antenna configuration from the plurality of antenna configurations as a function of previously selected antenna configurations.

Claim 15 has been amended to require a method step of controlling a memory to output data representing the selected antenna configuration as a function of previously selected antenna configurations.

Claim 22 has been amended to require selecting an antenna configuration from a plurality of antenna configurations in response to a control signal and as a function of previously selected antenna configurations.

In the present invention, the memory element is largely independent of the search algorithms discussed in the references. Upon startup, the prior systems laboriously run through pre-established, set search routines and do not use as a starting point a stored (in memory) previously selected antenna configuration. Simply stated, the prior art systems do not employ the results of their previous searches as a short cut in a current search.

It is respectfully submitted that independent claims 1, 9, 15 and 22, as presently amended, clearly distinguish over the art of record. Accordingly, Applicant requests that the rejection of claims 1, 9, 15 and 22 be reconsidered and withdrawn in view of the amendments and remarks herein, and that the claims be allowed.

Likewise, all remaining claims 2 – 8, 10 – 14, 16 – 21 and 23 – 28 depend, directly or indirectly from one of the amended independent claims and are therefore themselves allowable. The Applicant requests that the rejection of the dependent claims also be reconsidered and withdrawn in view of the amendments and remarks herein, and that the claims be allowed.

Conclusion:

It is believed, in view of the amendments and remarks herein, that all grounds of rejection of the claims have been addressed and overcome, and that all claims are in condition for allowance.

If it would further prosecution of the application, the Examiner is urged to contact the undersigned at the phone number provided.

The Commissioner is hereby authorized to charge ant fees associated with this communication to Deposit Account No. 50-0831.

Respectfully submitted,

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Enclosures:

Drawing Replacement Sheets 1/2 and 2/2

AMENDMENTS TO THE DRAWINGS:

Please substitute the enclosed sheets 1/2 and 2/2, each labeled "Replacement Sheet", for the corresponding sheets presently in the case.

It is noted that the Replacement Sheets provide a complete set of the drawings and avoid confusion with the original drawings.

FIG. 1:	REPLACEMENT SHEET	ORIGINAL SHEET	SPECIFICATION
	• antenna system 100	antenna system 100	¶ 0019, line 2
	• antenna elements 102	antenna elements 104	¶ 0019, line 2
	• switching elements 104	switching elements 106	¶ 0019, line 3
	•control arrangement 106	control arrangement 108	¶ 0021, line 1
	• control bus 108	control bus 110	¶ 0021, line 4
	• memory 110	memory 112	¶ 0022, line 7
	• address bus 112	address bus 114	¶ 0023, line 2
	• data bus 114	data bus 116	¶ 0023, line 2
	• receiver 116	communication device 118a-n	¶ 0027, line 2
	• RF signal from antenna system 100 to receiver 116	RF signal from antenna system 100 to communication device 118a-n	¶ 0027, lines 3-6
	• control signal from receiver 116 to memory 110/control arrangement 106	control signal from communication device 118a-n to control arrangement 108	¶ 0027, lines 1-3
FIG. 2:	**REPLACEMENT SHEET**	**ORIGINAL SHEET**	**SPECIFICATION**
	communication system 120	communication system 130	¶ 0029, line 2
	receiver 122	receiver 132a-b	¶ 0029, line 6
	antenna 124	antenna 134	¶ 0029, line 7
	antenna elements 126	antenna elements 136	¶ 0030, line 1
	switching elements 128	switching elements 138	¶ 0030, line 3
	switch controller 130	switch controller 140	¶ 0032, line 1
	control lines 132	control lines 142	¶ 0032, line 4
	memory 134	memory 144	¶ 0033, line 2
	bus 136	bus 146	¶ 0033, line 2
	lines 138 (processor 142 to memory 134)	lines unnumbered (between processor 150 and multiplex module 152) plus 148	¶ 0033, line 3
	lines 140 (receiver 122 to memory 134)	lines 154 plus 148 (through multiplex module 152)	¶ 0033, line 3
	processor 142	processor 152	¶ 0035, line 1
	lines 144	lines 158	¶ 0037, lines 1-2
	ROM 146	ROM 156	¶ 0038, lines 2-3

FIG. 3	REPLACEMENT SHEET	ORIGINAL SHEET	SPECIFICATION
	receiver control signal 150		¶ 0039, lines 4-5
	retrieve recent antenna configuration 152		¶ 0040, line 3
	configure switch 154		¶ 0041, lines 1-2
	acceptable antenna performance ? (no reference numeral)		¶ 0042, line 1 - ¶ 0043, line 3
	select different antenna configuration 156		¶ 0043, line 3
	address memory 158		¶ 0043, lines 3-4
	retrieve data for selected antenna configuration 160		¶ 0043, lines 4-5
	update memory 162		¶ 0044, lines 3-5

As is demonstrated by the cross-correlations above, every element, arrangement and functionality disclosed in each of the three drawing figures on the Replacement Sheets finds a clear antecedent basis in the application as filed.

Inasmuch as no new element, arrangement or functionality is introduced by the drawings on the Replacement Sheets, substitution of the Replacement Sheets does not introduce new matter. To the contrary, it provides significant clarity to the application as now constituted.

Substitution of the Replacement Sheets is therefore respectfully requested.